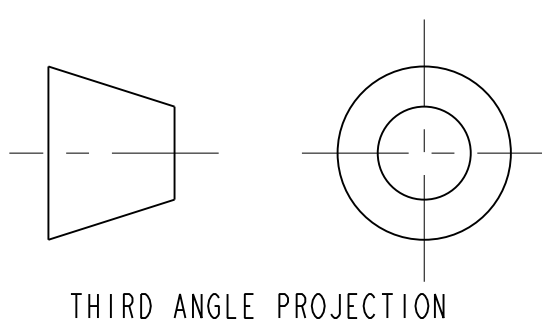
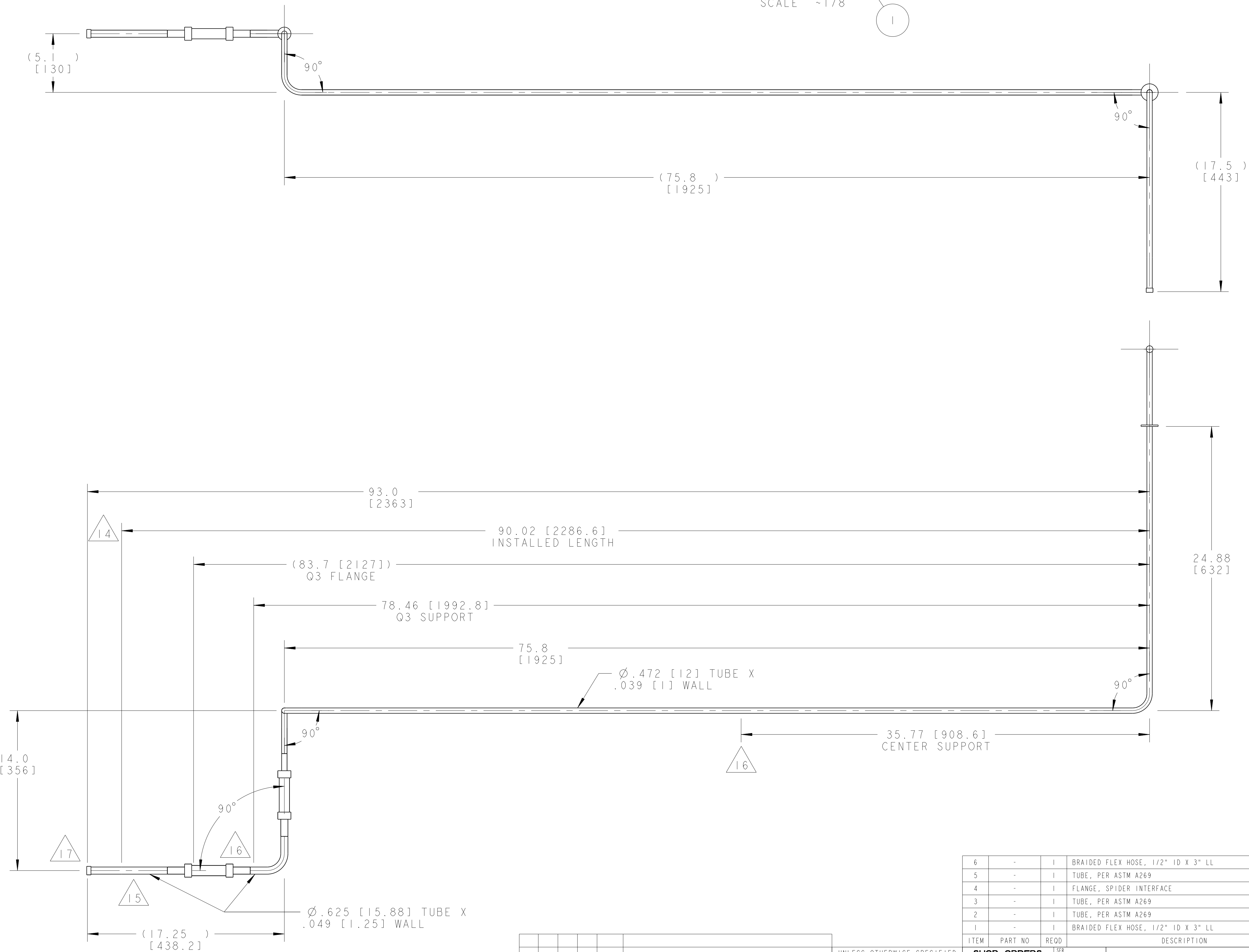
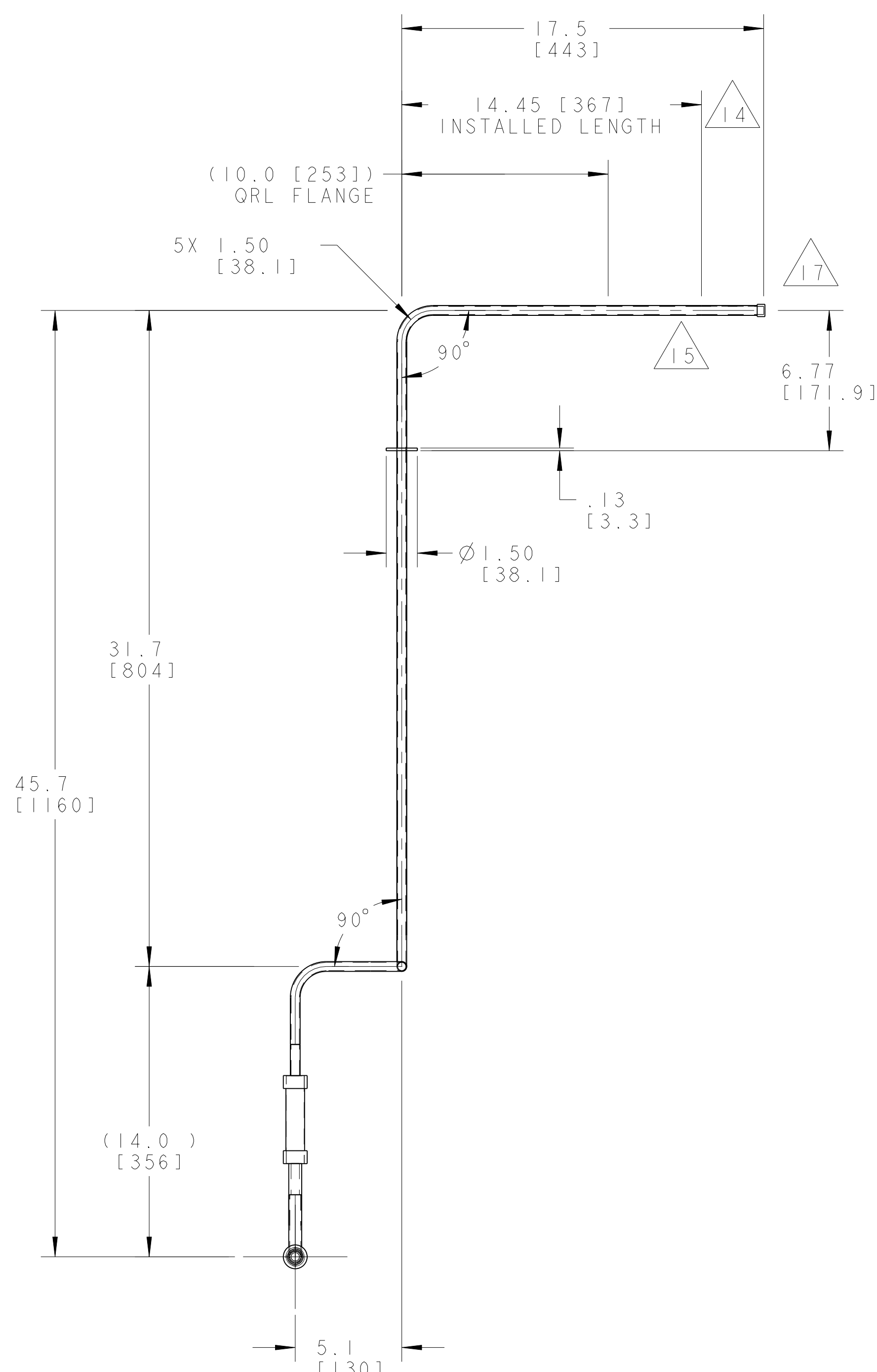



1. THIS IS A CRYOGENIC VACUUM COMPONENT.
2. WELDING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
3. CLEANING PROCEDURE : PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
4. PACKAGING AND STORAGE PROCEDURE OF THE COMPONENTS: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
5. DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982. UNITS ARE IN INCHES [mm] UNLESS OTHERWISE SPECIFIED.
6. USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED.
7. USE OF RESIN OR RUBBER BONDED ABRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
8. VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
9. FITTINGS MAY BE USED IN PLACE OF BENDS; SUBJECT TO LBNL APPROVAL.
10. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE FABRICATION OR ASSEMBLY; SUBJECT TO LBNL APPROVAL.

1. REMOVE ALL THE BURRS AND REAM THE ENDS FOR CIRCULARITY AND CLEAN ENDS.
12. TUBE END SURFACE MUST BE PERPENDICULAR TO THE TUBE AXIS WITHIN $\pm .010$.
13. PERFORM ACCEPTANCE TESTS PER LBNL SPECIFICATION M989.
14. A MARK DESIGNATING THE INSTALLED LENGTH WILL BE UTILIZED DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY. MARK, SCRIBE OR ETCH THIS LOCATION IN A PERMANENT MANNER, SUBJECT TO LBNL APPROVAL, TO AN ACCURACY OF 0.063".
15. PROVIDE A MINIMUM LENGTH OF 4.0" OF STRAIGHT, SMOOTH PIPE ON THE INDICATED SIDE OF THE INSTALLED LENGTH MARK FOR PIPE WELDING DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY.
16. PIPE MUST BE STRAIGHT AND SMOOTH (NO BUMPS) FOR 1.5" ON EITHER SIDE OF THE CENTER-PLANE OF THE SUPPORT.
17. CAP BOTH ENDS OF PIPE TO FACILITATE ACCEPTANCE TESTS.



B	ARH	SPV	01/15/03	REVISED DRAWING NOTES 13, 16 & 17, MINOR DRAWING DIMENSIONAL CHANGES	
A	ARH	SPV	11-01-02	INITIAL RELEASE	
REV	DWG	CHK	ZONE	DATE	CHANGES

UNLESS OTHERWISE SPECIFIED	
TOLERANCES	
X.X ± 0.1	FRACTION ± 1/64
X.XX ± 0.03	ANGLES ± 1.00°
X.XXX ± 0.010	FINISH $\sqrt[125]{R_{p0.8}}$
DO NOT SCALE PRINT	
THREADS ARE CLASS 2	
CHAMFER ENDS OF ALL SCREW THREADS 30°	
CUTTER ROUNDS, 1.5 THREAD RELIEF ON MACHINED THREADS	
BREAK EDGES 0.05 MAX. ON MACHINED WORK	
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	
IN ACCORDANCE WITH ASME Y14.5-2009	

6	-	I	BRAIDED FLEX HOSE, 1/2" ID X 3" LL	SS 30AL SERIES
5	-	I	TUBE, PER ASTM A269	SS 30AL
4	-	I	FLANGE, SPIDER INTERFACE	SS 30AL
3	-	I	TUBE, PER ASTM A269	SS 30AL
2	-	I	TUBE, PER ASTM A269	SS 30AL
1	-	I	BRAIDED FLEX HOSE, 1/2" ID X 3" LL	SS 30AL SERIES
ITEM	PART NO.	REQD	DESCRIPTION	MATERIAL
SHOP ORDERS			ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY 	
ACC NO.	N/A	ISSU NO.		
DATE	N/A	ISSU DATE		
REMARKS	N/A	REASON		
SURFACE TREATMENT	TAG			LHC IR FEEDBOX CRYOGENICS PIPE, K02
METHOD	N/A			
PROJECT NUMBER	N/A			
PROJ. NAME	N/A			
DWG. NO.	R/LA MANTIA	DATE	(3-Dec-01)	
CAD FILE	Joe Zbosnias-Virostka	DATE	03-01-01	
CHK BY	Joe Zbosnias-Virostka	DATE	03-01-01	
			MICROFILMED:	
			DWG. TYPE	SHOWN ON
			ASSEM	-
			PATENT CLEAR:	
			DESIGN ACCT.	CATEGORY CODE
			LH2003	
			DWG. NO.	SCALE: 7/32
				SHEET 1 OF 1
				SIZE
				REV
				2515236